

VOLUME 25, PART I.

SUBJECT INDEX

A

Absorption.

Tentative Method of Test for Water Absorption of Slate, 754.

Admiralty Metal.

Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 902.

Aggregates.

Concrete Aggregate Material Investigation Report. Report of Committee C-9, Appendix II, 209.

Concrete and Concrete Aggregates. Report of Committee C-9, 199.

Tentative Definition of the Term Sand, 635.

Alloys.

Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 150.

Ferro-Alloys. Report of Committee A-9, 121. Discussion, 123.

Non-Ferrous Metals and Alloys. Report of Committee B-2, 129. Addendum, 149.

Tentative Methods of Chemical Analysis of Aluminum and Light Aluminum Alloys, 590.

Tentative Methods of Chemical Analysis of Ferro-Alloys, 542.

Tentative Methods of Sampling Ferro-Alloys, 537.

Tentative Revision of Standard Specifications for Light Aluminum Casting Alloys, 902.

Tentative Specifications for Aluminum Base Alloy Sand Castings, 574.

Tentative Specifications for Bronze Trolley Wire, 578.

Tentative Specifications for Ferro-Chromium, 532.

Tentative Specifications for Ferro-Manganese, 530.

Tentative Specifications for Ferro-Silicon, 531.

Tentative Specifications for Ferro-Vanadium, 533.

Tentative Specifications for Muntz Metal Condenser Tube Plates, 583.

Tentative Specifications for Non-Ferrous Insect Screen Cloth, 587.

Tentative Specifications for Spiegeleisen, 529.

Alloy-Steel.

Tentative Revision of Standard Specifications for Carbon-Steel and Alloy-Steel Forgings, 895.

Tentative Revision of Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.

Tentative Specifications for Alloy-Steel Bolting Material for High-Temperature Service, 523.

Tentative Specifications for Structural Silicon Steel, 514.

Aluminum.

- Tentative Methods of Chemical Analysis of Aluminum and Light Aluminum Alloys, 590.
- Tentative Revision of Standard Specifications for Light Aluminum Casting Alloys, 902.
- Tentative Specifications for Aluminum Ingots for Remelting, 585.
- Tentative Specifications for Aluminum Base Alloy Sand Castings, 574.

Annual Address.

- Promotion of Knowledge of Engineering Materials. Annual Address by the President, F. M. Farmer, 34.

Annual Meeting.

- Summary of the Proceedings of the Twenty-eighth Annual Meeting, 11.

Anti-Fouling Paints.

- Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 244.

Antimony.

- Review of the Antimony Situation by H. K. Masters. Report of Sub-Committee B-2, Appendix, 143.

Asphalt.

- Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 792.
- Tentative Specifications for Acid-Resisting Asphalt Mastic, 759.
- Tentative Specifications for Asphalt-Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-up Roofs, 770.
- Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 765.
- Tentative Specifications for Smooth-Surfaced Asphalt Roll-Roofing, 761.

Axles.

- Tentative Revision of Standard Specifications for Carbon-Steel Car and Tender Axles, 896.
- Tentative Revision of Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.
- Tentative Revision of Standard Specifications for Quenched-and-Tempered Carbon-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.
- Tentative Specifications for Carbon-Steel Car and Tender Axles, 509.

B**Bars.**

- Tentative Revision of Standard Specifications for Staybolt, Engine-Bolt and Extra-Refined Wrought Iron Bars, 897.

Bituminous Materials.

- Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 342.
- Penetration. Report of Sectional Committee, Committee D-4, 301.
- Results of tests by various investigators on penetration of bituminous materials, 302.
- Tentative Methods of Float Test for Bituminous Materials, 748.
- Tentative Methods of Testing Bituminous Mastics, Grouts, and Like Mixtures, 786.
- Tentative Methods of Testing Cable Splicing and Pothead Compounds, 810.
- Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.

Bituminous Materials (*Continued*):

- Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 792.
- Tentative Revision of Standard Method of Test for Distillation of Bituminous Materials Suitable for Road Treatment, 911.
- Tentative Specifications for Acid-Resisting Asphalt Mastic, 759.
- Tentative Specifications for Asphalt-Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 770.
- Tentative Specifications for Coal-Tar Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 773.
- Tentative Specifications for High-Carbon Tar Cement, 740.
- Tentative Specifications for High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 738.
- Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaces Asphalt Shingles, 765.
- Tentative Specifications for Smooth-Surfaced Asphalt Roll-Roofing, 761.

Boiler Tubes.

- Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 896.

Bolts.

- Tentative Specifications for Alloy-Steel Bolting Material for High-Temperature Service, 523.

Bone Black.

- Tentative Specifications for Bone Black, 652.

Brass.

- Tentative Revision of Standard Specifications for Naval Brass Rods for Structural Purposes, 903.
- Tentative Revision of Standard Specifications for High Sheet Brass, 903.

Brick.

- Brick. Report of Committee C-3, 184.
- Tentative Revision of Standard Specifications for Paving Brick, 907.

Brinell Hardness.

- Tentative Methods of Brinell Hardness Testing of Metallic Materials, 872.

Bronze.

- Tentative Revision of Standard Specifications for High-Strength Bronze Trolley Wire, Round and Grooved, 40 and 65-per-cent Conductivity, 902.
- Tentative Specifications for Bronze Trolley Wire, 578.

Building Tile.

- See **Tile.**

Burning Quality.

- Tentative Method of Test for Burning Quality of Long-Time Burning Oil for Railway Use, 718.

C

Cable Splicing.

- Tentative Methods of Testing Cable Splicing and Pothead Compounds, 810.

Carburizing.

- Tentative Recommended Practice for Carburizing and Heat Treatment of Carburized Objects, 568.
- Tentative Revision of Standard Recommended Practice for Heat Treatment of Case-Hardened Carbon-Steel Objects, 898.

Case Hardening.

See **Carburizing.**

Castings.

Classification of refractories for malleable-cast-iron industry, 195.

Malleable Castings. Report of Committee A-7, 118. Discussion, 119.

Tentative Revision of Standard Specifications for Light Aluminum Casting Alloys, 902.

Tentative Revision of Standard Specifications for Malleable Castings, 897.

Tentative Specifications for Carbon-Steel Castings for Valves, Flanges, and Fittings for High-Temperature Service, 519.

Tentative Specifications for Aluminum Base Alloy Sand Castings, 574.

Cast Iron.

Cast Iron. Report of Committee A-3, 84.

Discussion on cast iron test bars, 87.

Cement.

Brief Bibliography on Portland Cement. Report of Committee C-1, Appendix, 172.

Cement. Report of Committee C-1, 159.

Discussion on cement testing, 178.

Manual of Cement Testing. Report of Committee C-1, Appendix, 161.

Tentative Method of Test for Consistency of Portland-Cement Concrete, 746.

Tentative Revision of Standard Specifications and Tests for Portland Cement, 904.

Training of cement testers, 170.

China Wood Oil.

See **Tung Oil.**

Chrome Green.

Tentative Specifications for Pure Chrome Green, 656.

Tentative Specifications for Reduced Chrome Green, 658.

Chrome Yellow.

Tentative Specifications for Chrome Yellow, 654.

Cloud Point.

Proposed Specifications for A.S.T.M. Low-Cloud and Pour Test Thermometers, -60 to +20° C., -70 to +70° F. Report of Committee D-15, 393.

Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 725.

Coal.

Coal and Coke. Report of Committee D-5, 307.

Tentative Definitions of Terms Relating to Coal, 752.

Tentative Revision of Standard Methods of Laboratory Sampling and Analysis of Coal, 912.

Coal-Tar.

See **Tar.**

Coke.

Classification of refractories for by-product coke ovens, 196.

Coal and Coke. Report of Committee D-5, 307.

Tentative Revision of Standard Methods of Laboratory Sampling and Analysis of Coke, 911.

Color.

Tentative Method of Test for Color of Petrolatum by Means of the Union Colorimeter, 713.

Compression Testing.

Compressive strength of concrete as determined on specimens of various size and shape, 200.

Tentative Methods of Compression Testing of Metallic Materials, 867.

Concrete.

Compressive strength of concrete as determined on specimens of various size and shape, 200.

Concrete Aggregate Material Investigation Report. Report of Committee C-9, Appendix II, 209.

Concrete and Concrete Aggregates. Report of Committee C-9, 199.

Digest of Literature on Methods of Making Flexure and Tension Tests of Concrete by Duff A. Abrams. Report of Committee C-9, Appendix I, 205.

Tentative Method of Securing Specimens of Hardened Concrete from the Structure, 631.

Tentative Method of Test for Consistency of Portland-Cement Concrete, 746.

Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 904.

Condenser Tubes.

Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 902.

Tentative Specifications for Muntz Metal Condenser Tube Plates, 583.

Consistency.

Tentative Method of Test for Consistency of Portland-Cement Concrete, 746.

Tentative Method of Test for Penetration of Greases, 701.

Copper.

Copper Wire. Report of Committee B-1, 126.

Tentative Revision of Standard Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 901.

Tentative Revision of Standard Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 898.

Tentative Specifications for Non-Ferrous Insect Screen Cloth, 587.

Corrosion.

Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 244.

Corrosion of Iron and Steel. Report of Committee A-5, 95.

Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 150.

Long-time exposure tests of non-ferrous screen wire materials, 384.

Outline of atmospheric exposure tests on zinc-coated products, 104.

Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 99.

Cotton.

Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 837.

Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 831.

Tentative Specifications for Tolerances for Numbered Cotton Duck, 840.

Creosote Oil.

Tentative Revision of Standard Methods of Sampling and Analysis of Creosote Oil, 912.

Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 340.

D**Damp-Proofing.**

See **Waterproofing.**

Definitions of Terms.

Definitions of Terms Used in Paint Specifications. Report of Sub-Committee VI, Committee D1, 232.

Nomenclature and Definitions. Report of Committee E-8, 488.

Nomenclature. Report of Sub-Committee XX, Committee D2, 287.

Tentative Definition of the Term Sand, 635.

Tentative Definition of the Term Screen (Sieve), 889.

Tentative Definitions of Terms Relating to Coal, 752.

Tentative Definitions of Terms Relating to the Gypsum Industry, 633.

Tentative Definitions of Terms Relating to Methods of Testing, 879.

Tentative Definitions of Terms Relating to Specific Gravity, 887.

Tentative Revision of Standard Definitions of Terms Relating to Paint Specifications, 917.

Dielectric Strength.

Tentative Method of Testing Electrical Insulating Materials for Voltage Effects at Radio Frequencies, 804.

Tentative Methods of Testing Insulating Varnishes, 797.

Tentative Methods of Testing Cable Splicing and Pothead Compounds, 810.

Distillation.

Application of distillation methods for moisture, 421.

Results of test to determine naptha content of crude oils, 291.

Tentative Method of Test for Distillation of Gasoline, Naptha, Kerosine, and Similar Petroleum Products, 685.

Tentative Method of Test for Distillation of Natural Gas Gasoline, 693.

Tentative Methods of Testing Gas Oils (Gravity, Distillation, Sulfur, Carbon Residue, Pour Point, Viscosity, Water), 732.

Tentative Revision of Standard Method of Test for Distillation of Bituminous Materials Suitable for Road Treatment, 911.

Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 340.

Douglas Fir.

See **Timber.**

Duck.

Tentative Specifications for Tolerances for Numbered Cotton Duck, 840.

E**Emulsification.**

Emulsification. Report of Sub-Committee XI, Committee D-2, 272.

Results of investigation on modified A.S.T.M. steam emulsion test, 273.

Executive Committee.

Annual Report of the Executive Committee, 46.

F**Fabrics.**

Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.

Felt.

- Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.
- Tentative Specifications for Asphalt-Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 770.
- Tentative Specifications for Coal-Tar Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 773.

Ferro-Alloys.

- Ferro-Alloys. Report of Committee A-9, 121. Discussion, 123.
- Tentative Methods of Chemical Analysis of Ferro-Alloys, 542.
- Tentative Methods of Sampling Ferro-Alloys, 537.
- Tentative Specifications for Ferro-Chromium, 532.
- Tentative Specifications for Ferro-Manganese, 530.
- Tentative Specifications for Ferro Silicon, 531.
- Tentative Specifications for Ferro-Vanadium, 533.
- Tentative Specifications for Spiegeleisen, 529.
- Tentative Specifications for Tungsten Powder, 528.

Ferro-Chromium.

- Tentative Specifications for Ferro-Chromium, 532.

Ferro-Manganese.

- Tentative Specifications for Ferro-Manganese, 530.

Ferro-Silicon.

- Tentative Specifications for Ferro-Silicon, 531.

Ferro-Vanadium.

- Tentative Specifications for Ferro-Vanadium, 533.

Fireproofing.

- Tentative Revision of Standard Specifications for Fire Tests of Materials and Construction, 904.

Flexure Testing.

- Digest of Literature on Methods of Making Flexure and Tension Tests of Concrete by Duff A. Abrams. Report of Committee C-9, Appendix I, 205.
- Proposed Methods of Flexure Testing of Metallic Materials. Report of Committee E-1, Appendix I, 424.
- Tentative Methods of Flexure Testing of Slate (Determination of Modulus of Rupture and Modulus of Elasticity), 756.

Float Test.

- Tentative Method of Float Test for Bituminous Materials, 748.

Forgings.

- Tentative Revision of Standard Specifications for Carbon-Steel and Alloy-Steel Forgings, 895.
- Tentative Revision of Standard Specifications for Carbon-Steel Car and Tender Axles, 896.
- Tentative Revision of Standard Specifications for Carbon-Steel Forgings for Locomotives, 895.
- Tentative Revision of Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.
- Tentative Revision of Standard Specifications for Quenched-and-Tempered Carbon-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.
- Tentative Specifications for Carbon-Steel Car and Tender Axles, 509.

Free Acid.

Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 722.

Free Alkali.

Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 722.

G**Galvanizing.**

Outline of atmospheric exposure tests on zinc-coated products, 104.

Proposed Requirements for Zinc-Coated or Galvanized Wire. Report of Sub-Committee VI, Committee A-5, Appendix, 102.

Gas Oils.

Tentative Methods of Testing Gas Oils (Gravity, Distillation, Sulfur, Carbon Residue, Pour Point, Viscosity, Water), 732.

Gasoline.

Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosine, and Similar Petroleum Products, 685.

Tentative Method of Test for Distillation of Natural Gas Gasoline, 693.

Grease.

Grease. Report of Sub-Committee IV, Committee D-2, 266.

Tentative Method of Test for Penetration of Greases, 701.

Grout.

Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 786.

Gypsum.

Gypsum. Report of Committee C-11, 211. Discussion, 218.

Proposed Revisions of the Standard Methods of Testing Gypsum and Gypsum Products. Report of Committee C-11, Appendix, 216.

Tentative Definitions of Terms Relating to the Gypsum Industry, 633.

Tentative Revision of Standard Methods of Testing Gypsum and Gypsum Products, 908.

H**Hardness.**

Micro-Hardness. Report of Sub-Committee V, Committee E-4, 442.

Tentative Methods of Brinell Hardness Testing of Metallic Materials, 872.

Heat Treatment.

Heat Treatment of Iron and Steel. Report of Committee A-4, 94.

Results of vibratory and tension tests on staybolt iron, annealed and unannealed, 82.

Tentative Recommended Practice for Carburizing and Heat Treatment of Carburized Objects, 568.

Tentative Revision of Recommended Practice for Heat Treatment of Case-Hardened Carbon-Steel Objects, 898.

High Temperature.

Tentative Specifications for Alloy-Steel Bolting Material for High-Temperature Service, 523.

Tentative Specifications for Carbon-Steel Castings for Valves, Flanges and Fittings for High-Temperature Service, 519.

Hydrated Lime.

See Lime.

I

Illuminating Oils.

Tentative Method of Test for Burning Quality of Long-Time Burning Oil for Railway Use, 718.

Ingots.

Tentative Specifications for Aluminum Ingots for Remelting, 585.

Insulating Materials.

Electrical Insulating Materials. Report of Committee D-9, 348. Discussion, 369.

Life Test for Transformer Oils by E. A. Snyder and D. C. Cox. Report of Committee D-9, Appendix, 363.

Tentative Method of Testing Electrical Insulating Materials for Voltage Effects at Radio Frequencies, 804.

Tentative Methods of Testing Cable Splicing and Pothead Compounds, 810.

Tentative Methods of Testing Insulating Varnishes, 797.

Tentative Methods of Testing Laminated Sheet Insulating Materials, 825.

Tentative Methods of Testing Untreated Insulating Paper, 815.

Tentative Revision of Standard Methods of Testing Molded Insulating Materials, 912.

Iron.

Cast Iron. Report of Committee A-3, 84.

Corrosion of Iron and Steel. Report of Committee A-5, 95.

Discussion on cast iron test bars, 87.

Heat Treatment of Iron and Steel. Report of Committee A-4, 94.

Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 97.

Outline of atmospheric exposure tests on zinc-coated products, 104.

Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 238.

Proposed methods of sampling and chemical analysis of wrought iron, 79.

Results of vibratory and tension tests on staybolt iron, annealed and unannealed, 82.

Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 896.

Tentative Revision of Standard Specifications for Staybolt, Engine-Bolt and Extra-Refined Wrought-Iron Bars, 897.

Tentative Revision of Standard Specifications for Welded Wrought Iron Pipe, 897.

Tentative Specifications for Hollow Staybolt Iron, 534.

Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 99.

Wrought Iron. Report of Committee A-2, 77.

Iron Hydroxide.

Tentative Specifications for Iron Oxide and Iron-Hydroxide, 646.

Iron Oxide.

Tentative Specifications for Iron Oxide and Iron Hydroxide, 646.

K**Kerosine.**

Tentative Method of Test for Burning Quality of Long-Time Burning Oil for Railway Use, 718.

Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosine, and Similar Petroleum Products, 685.

Knit Goods.

Tentative Specifications for Tolerances and Test Methods for Knit Goods, 842.

L**Lampblack.**

Tentative Specifications for Lampblack, 650.

Lime.

Lime. Report of Committee C-7, 186.

Tentative Methods of Chemical Analysis of Limestone, Quicklime and Hydrated Lime, 618.

Tentative Revision of Standard Specifications for Hydrated Lime for Structural Purposes, 907.

Tentative Specifications for Hydrated Lime for Use in Water Treatment, 616.

Tentative Specifications for Quicklime for Use in the Manufacture of Sulfite Pulp, 612.

Tentative Specifications for Quicklime for Use in Water Treatment, 614.

Linseed Oil.

Tentative Methods of Routine Analysis of White Linseed Oil Paints, 664.

Lithopone.

Tentative Specifications for Lithopone, 648.

Lubricants.

Grease. Report of Sub-Committee IV, Committee D-2, 266.

Petroleum Products and Lubricants. Report of Committee D-2, 248.

Tentative Method of Test for Color of Petrolatum by Means of the Union Colorimeter, 713.

Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 722.

Tentative Method of Test for Penetration of Greases, 701.

Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 707.

M**Malleable Castings.**

Classification of refractories for malleable-cast-iron industry, 195.

Malleable Castings. Report of Committee A-7, 118. Discussion, 119.

Tentative Revision of Standard Specifications for Malleable Castings, 897.

Mastic.

Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 786.

Tentative Specifications for Acid-Resisting Asphalt Mastic, 759.

Mechanical Analysis.

List of points to be considered in drawing up specifications for a sieving test,

Tentative Specifications for Sieves for Testing Purposes, 853.

Tentative Method of Mechanical Analysis of Subgrade Soils, 742.

Tentative Specifications for Sieves for Testing Purposes, 850.

Metallography.

Discussion on X-ray metallography, 470.

Metallography. Report of Committee E-4, 440. Discussion, 470.

Micro-Hardness. Report of Sub-Committee V, Committee E-4, 442.

Tentative Recommended Practice for Thermal Analysis of Steel, 890.

X-ray Metallography. Report of Sub-Committee VI, Committee E-4, 444.

Mineral Spirits.

Report on collaborative tests on detection of sulfur in mineral spirits, 222.

Modulus of Elasticity.

Tentative Methods of Flexure Testing of Slate (Determination of Modulus of Rupture and Modulus of Elasticity), 756.

Modulus of Rupture.

Tentative Methods of Flexure Testing of Slate (Determination of Modulus of Rupture and Modulus of Elasticity), 756.

Moisture Equivalent.

Tentative Method of Test for the Determination of Moisture Equivalent of Subgrade Soils in the Field, 745.

Muntz Metal.

Tentative Specifications for Muntz Metal Condenser Tube Plates, 583.

N**Naphtha.**

Results of tests to determine naphtha content of crude oils, 291.

Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosine, and Similar Petroleum Products, 685.

Natural Gas Gasoline.

Tentative Method of Test for Distillation of Natural Gas Gasoline, 693.

Neutralization Number.

Neutralization Number and Saponification. Report of Sub-Committee XIII, Committee D-2, 280.

Proposed Method of Test for Neutralization Number of Petroleum Oil, Titration by Electrometric Method. Report of Sub-Committee XIII, Committee D-2, Appendix, 282.

Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 722.

Nomenclature.

See **Definitions of Terms.**

O**Oil.**

See also **Petroleum Products.**

Calorific Value of Fuel Oil. Report of Sub-Committee XXIV, Committee D-2, 292.

Life Test for Transformer Oils by E. A. Snyder and D. C. Cox. Report of Committee D-9, Appendix, 363.

Proposed Method for Determination of Oil in Wax. Report of Sub-Committee III, Committee D-2, Appendix, 263.

Proposed Method of Test for Neutralization Number of Petroleum Oil, Titration by Electrometric Method. Report of Sub-Committee XIII, Committee D-2, Appendix, 282.

Oil (Continued):

- Results of tests to determine naphtha content of crude oils, 291.
- Tentative Method of Test for Burning Quality of Long-Time Burning Oil for Railway Use, 718.
- Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 725.
- Tentative Methods of Testing Gas Oils (Gravity, Distillation, Sulfur, Carbon Residue, Pour Point, Viscosity, Water), 732.
- Tentative Specifications for Raw Tung Oil, 636.
- Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 340.

P**Paint.**

- Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 244.
- Definitions of Terms Used in Paint Specifications. Report of Sub-Committee VI, Committee D-1, 232.
- Method of Application of Paint by Spraying. Report of Sub-Committee XXII, Committee D-1, 243.
- Physical Properties of Paint Materials. Report of Sub-Committee XVIII, Committee D-1, 241.
- Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 238.
- Tentative Method of Routine Analysis of White Linseed Oil Paints, 664.
- Tentative Revision of Standard Definitions of Terms Relating to Paint Specifications, 917.

Paint Vehicles.

- Tentative Specifications for Raw Tung Oil, 636.
- Testing of Paint Vehicles. Report of Sub-Committee III, Committee D-1, 227.

Paper.

- Tentative Methods of Testing Untreated Insulating Paper, 815.
- Tentative Specifications for Quicklime for Use in the Manufacture of Sulfite Pulp, 612.

Paraffin Wax.

- Paraffin Wax. Report of Sub-Committee III, Committee D-2, 260.

Paving Brick.

- Tentative Revision of Standard Specifications for Paving Brick, 907.

Penetration.

- Penetration. Report of Sectional Committee, Committee D-4, 301.
- Results of tests by various investigators on penetration of bituminous materials, 302.
- Tentative Method of Test for Penetration of Greases, 701.

Petrolatum.

- Tentative Method of Test for Color of Petrolatum by Means of the Union Colorimeter, 713.

Petroleum Products.

- Crude Petroleum. Report of Sub-Committee XXI, Committee D-2, 290.
- Petroleum Products and Lubricants. Report of Committee D-2, 248.
- Proposed Method for Determination of Oil in Wax. Report of Sub-Committee III, Committee D-2, Appendix, 263.
- Proposed Method of Test for Neutralization Number of Petroleum Oil, Titration by Electrometric Method. Report of Sub-Committee XIII, Committee D-2, Appendix, 282.

Petroleum Products (Continued):

- Results of investigation on modified A.S.T.M. steam emulsion test, 273.
- Results of sulfur determinations of motor fuels containing benzol, 269.
- Results of tests on determination of oil in wax of varying oil content, 261.
- Results of tests to determine naphtha content of crude oils, 291.
- Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 725.
- Tentative Method of Test for Distillation of Gasoline, Naptha, Kerosine, and Similar Petroleum Products, 635.
- Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 722.
- Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 707.

Pigments.

- Tentative Specifications for Bone Black, 652.
- Tentative Specifications for Chrome Yellow, 654.
- Tentative Specifications for Iron Oxide and Iron Hydroxide, 646.
- Tentative Specifications for Lampblack, 650.
- Tentative Specifications for Lithopone, 648.
- Tentative Specifications for Pure Chrome Green, 656.
- Tentative Specifications for Reduced Chrome Green, 658.

Pipe.

- Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 904.
- Tentative Revision of Standard Specifications for Welded and Seamless Steel Pipe, 896.
- Tentative Revision of Standard Specifications for Welded Wrought-Iron Pipe, 897.

Pothead Compounds.

- Tentative Methods of Testing Cable Splicing and Pothead Compounds, 810.

Pour Point.

- Proposed Specifications for A.S.T.M. Low-Cloud and Pour Test Thermometers, -60 to +20° C., -70 to +70° F. Report of Committee D-15, 393.
- Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 725.

Preservatives.

- Preservative Coatings for Structural Materials. Committee D-1, 220.
- Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 340.

Publications.

- Papers and Publications. Report of Committee E-6, 486.

Pure Chrome Green.

- Tentative Specifications for Pure Chrome Green, 656.

Q**Quicklime.**

- See Lime.

R**Radio Frequencies.**

- Tentative Method of Testing Electrical Insulating Materials for Voltage Effects at Radio Frequencies, 804.

Reduced Chrome Green.

- Tentative Specifications for Reduced Chrome Green, 658.

Refractories.

- Classification of refractories for by-product coke ovens, 196.
- Classification of refractories for malleable-cast-iron industry, 195.
- Refractories. Report of Committee C-8, 190.
- Report of Industrial Survey. Report of Committee C-8, Appendix, 192.

Research.

- Correlation of Research. Report of Committee E-9, 502.
- Promotion of Knowledge of Engineering Materials. Annual Address by the President, F. M. Farmer, 34.

Road Materials.

- Road and Paving Materials. Report of Committee D-4, 293.
- Tentative Method of Float Test for Bituminous Materials, 748.
- Tentative Method of Test for Consistency of Portland-Cement Concrete, 746.
- Tentative Methods of Mechanical Analysis of Subgrade Soils, 742.
- Tentative Methods of Test for the Determination of Moisture Equivalent of Subgrade Soils in the Field, 745.
- Tentative Revision of Standard Method of Test for Distillation of Bituminous Materials Suitable for Road Treatment, 911.
- Tentative Revision of Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 910.
- Tentative Revision of Standard Specifications for Shovel-Run or Crusher Run Broken Slag for Waterbound Base, 910.
- Tentative Specifications for High-Carbon Tar Cement, 740.
- Tentative Specifications for High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 738.

Roll-Roofing.

- Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 792.
- Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 765.
- Tentative Specifications for Smooth-Surfaced Asphalt Roll-Roofing, 761.

Roofing.

- Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 342.
- Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.
- Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 792.
- Tentative Specifications for Asphalt-Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 770.
- Tentative Specifications for Coal-Tar Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 773.
- Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 765.
- Tentative Specifications for Smooth-Surfaced Asphalt Roll-Roofing, 761.

Rubber Products.

- Performance tests of rubber products, 374.
- Proposed specifications for rubber disks for alarm valves in sprinkler systems, 372.
- Rubber Products. Report of Committee D-11, 371.

S

Sand.

Tentative Definition of the Term Sand, 635.

Saponification.

Neutralization Number and Saponification. Report of Sub-Committee XIII, Committee D-2, 280.

Scoured Content.

Tentative Methods of Testing Grease Wool and Allied Fibers for Scoured Content, 846.

Screen.

Screen Wire Cloth. Report of Committee D-14, 384.

Tentative Definition of the Term Screen (Sieve), 889.

Tentative Specifications for Non-Ferrous Insect Screen Cloth, 587.

Tentative Specifications for Sieves for Testing Purposes, 850.

Sewer Pipe.

Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 904.

Shear.

Proposed Methods for Torsion Tests to Determine the Mechanical Properties of Metallic Materials Under Shearing Stress. Report of Committee E-1, Appendix II, 430.

Sheet.

Tentative Methods of Testing Laminated Sheet Insulating Materials, 825.

Tentative Revision of Standard Specifications for High Sheet Brass, 903.

Shellac.

Tentative Methods of Testing Shellac Varnish, 660.

Tentative Specifications for Dry Bleached Shellac, 644.

Shingles.

Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing, and Slate-Surfaced Asphalt Shingles, 792.

Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 765.

Sieve.

Tentative Definition of the Term Screen (Sieve), 889.

Tentative Specifications for Sieves for Testing Purposes, 850.

Silicon.

Tentative Specifications for Ferro-Silicon, 531.

Tentative Specifications for Structural Silicon Steel, 514.

Slag.

Tentative Revision of Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 910.

Tentative Revision of Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 910.

Slate.

Slate. Report of Committee D-16, 395.

Tentative Methods of Flexure Testing of Slate (Determination of Modulus of Rupture and Modulus of Elasticity), 756.

Tentative Method of Test for Water Absorption of Slate, 754.

Slump Test.

Tentative Method of Test for Consistency of Portland-Cement Concrete, 746.

Soil.

Tentative Method of Mechanical Analysis of Subgrade Soils, 742.

Tentative Method of Test for the Determination of Moisture Equivalent of Subgrade Soils in the Field, 745.

Southern Pine.

See **Timber.**

Specific Gravity.

Tentative Definitions of Terms Relating to Specific Gravity, 887.

Spiegeleisen.

Tentative Specifications for Spiegeleisen, 529.

Standardization.

Promotion of Knowledge of Engineering Materials. Annual Address by the President, F. M. Farmer, 34.

Staybolts.

Tentative Specifications for Hollow Staybolt Iron, 534.

Tentative Revision of Standard Specifications for Staybolt, Engine-Bolt and Extra-Refined Wrought-Iron Bars, 897.

Steel.

Corrosion of Iron and Steel. Report of Committee A-5, 95.

Heat Treatment of Iron and Steel. Report of Committee A-4, 94.

Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 97.

Outline of atmospheric exposure tests on zinc-coated products, 104.

Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 238.

Proposed Revisions in Standards for Steel. Report of Committee A-1, Appendix, 75.

Steel. Report of Committee A-1, 70.

Tentative Recommended Practice for Carburizing and Heat-Treatment of Carburized Objects, 568.

Tentative Recommended Practice for Thermal Analysis of Steel, 890.

Tentative Specifications for Carbon-Steel Car and Tender Axles, 509.

Tentative Specifications for Carbon-Steel Castings for Valves, Flanges and Fittings for High-Temperature Service, 519.

Tentative Specifications for Structural Silicon Steel, 514.

Tentative Revision of Standard Recommended Practice for Heat Treatment of Case-Hardened Carbon-Steel Objects, 898.

Tentative Revision of Standard Specifications for Carbon-Steel and Alloy-Steel Forgings, 895.

Tentative Revision of Standard Specifications for Carbon-Steel Car and Tender Axles, 896.

Tentative Revision of Standard Specifications for Carbon-Steel Forgings for Locomotives, 895.

Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 896.

Tentative Revision of Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.

Steel (Continued):

- Tentative Revision of Standard Specifications for Quenched-and-Tempered Carbon-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 895.
- Tentative Revision of Standard Specifications for Welded and Seamless Steel Pipe, 896.
- Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 99.

Subgrade.

- Tentative Method of Mechanical Analysis of Subgrade Soils, 742.
- Tentative Method of Test for the Determination of Moisture Equivalent of Subgrade Soils in the Field, 745.

Sulfur.

- Report on collaborative tests on detection of sulfur in mineral spirits, 222.
- Results of sulfur determinations of motor fuels containing benzol, 269.
- Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 269.

Summary of the Proceedings.

- Summary of the Proceedings of the Twenty-eighth Annual Meeting, 11.

T**Tar.**

- Tentative Method of Float Test for Bituminous Materials, 748.
- Tentative Specifications for Coal-Tar Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 773.
- Tentative Specifications for High-Carbon Tar Cement, 740.
- Tentative Specifications for High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 738.

Tension Testing.

- Digest of Literature on Methods of Making Flexure and Tension Tests of Concrete by Duff A. Abrams. Report of Committee C-9, Appendix I, 205.
- Tentative Methods of Tension Testing of Metallic Materials, 854.
- Tentative Specifications for Textile Testing Machines, 829.

Testing Machines.

- Tentative Specifications for Textile Testing Machines, 829.

Testing, Methods of.

- Methods of Testing. Report of Committee E-1, 398. Discussion, 437.
- Tentative Definitions of Terms Relating to Methods of Testing, 879.

Textile Materials.

- Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.
- Tentative Methods of Testing Grease Wool and Allied Fibers for Scoured Content, 846.
- Tentative Specifications for Textile Testing Machines, 829.
- Tentative Specifications for Tolerances for Numbered Cotton Duck, 840.
- Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 837.
- Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 831.
- Tentative Specifications for Tolerances and Test Methods for Knit Goods, 842.
- Textile Materials. Report of Committee D-13, 376.

Thermal Analysis.

Tentative Recommended Practice for Thermal Analysis of Steel, 890.

Thermometers.

Proposed Specifications for A.S.T.M. Low-Cloud and Pour Test Thermometers, -60 to +20° C., -70 to +70° F. Report of Committee D-15, 393.

Specifications for cloud and pour test thermometer, Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 725.

Specifications for high-distillation thermometer, Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosine, and Similar Petroleum Products, 689.

Specifications for low cloud and pour test thermometer, Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 726.

Specifications for low-distillation thermometer, Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosine, and Similar Petroleum Products, 688; also, Tentative Method of Test for Distillation of Natural Gas Gasoline, 696.

Specifications for low-softening point thermometer, Tentative Method of Float Test for Bituminous Materials, 748.

Specifications for thermometers used in viscosity tests, Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 709.

Thermometers. Report of Committee D-15, 391.

Threads.

Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 837.

Tile.

Hollow Masonry Building Units. Report of Committee C-10, 210.

Timber.

Specifications for Timber. Report of Sub-Committee I, Committee D-7, 312.

Timber. Report of Committee D-7, 310.

Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 340.

Use Specifications (A): Buildings, 333.

Use Specifications (B): Bridges and Trestles, 334.

Working Stresses for Douglas Fir and Southern Pine. Report of Sub-Committee I, Committee D-7, Appendix, 335.

Torsion.

Proposed Methods for Torsion Tests to Determine the Mechanical Properties of Metallic Materials Under Shearing Stress. Report of Committee E-1, Appendix II, 430.

Trolley Wire.

Tentative Revision of Standard Specifications for High Strength Bronze Trolley Wire, Round and Grooved, 40 and 65-per-cent Conductivity, 902.

Tubes.

Tentative Specifications for Muntz Metal Condenser Tube Plates, 583.

Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 896.

Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 902.

Tung Oil.

Tentative Specifications for Raw Tung Oil, 636.

Tungsten.

Tentative Specifications for Tungsten Powder, 528.

Turpentine.

Tentative Revision of Standard Specifications for Turpentine, 909.

V**Valves.**

Tentative Specifications for Carbon-Steel Castings for Valves, Flanges, and Fittings for High-Temperature Service, 519.

Varnish.

Tentative Methods of Testing Insulating Varnishes, 797.

Tentative Methods of Testing Shellac Varnish, 660.

Varnish. Report of Sub-Committee IX, Committee D-1, 233.

Viscosity.

Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 707.

Tentative Methods of Testing Gas Oils (Gravity, Distillation, Sulfur, Carbon Residue, Pour Point, Viscosity, Water), 732.

Voltage Effects.

Tentative Method of Testing Electrical Insulating Materials for Voltage Effects at Radio Frequencies, 804.

W**Water.**

Application of distillation methods for moisture, 421.

Determination of Water. Report of Sub-Committee, Committee E-1, 416.

Summary of various methods for determination of moisture, 419.

Water Treatment.

Tentative Specifications for Hydrated Lime for Use in Water Treatment, 616.

Tentative Specifications for Quicklime for Use in Water Treatment, 614.

Waterproofing.

Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 342.

Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 786.

Tentative Methods of Testing Felted and Woven Fabrics Saturated with Bituminous Substances for Use in Waterproofing and Roofing, 776.

Tentative Methods of Testing Smooth-Surfaced Asphalt Roll-Roofing, Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 792.

Tentative Specifications for Acid-Resisting Asphalt Mastic, 759.

Tentative Specifications for Asphalt-Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 770.

Tentative Specifications for Coal-Tar Saturated Roofing Felt for Use in Waterproofing and in Constructing Built-Up Roofs, 773.

Tentative Specifications for Slate-Surfaced Asphalt Roll-Roofing and Slate-Surfaced Asphalt Shingles, 765.

Tentative Specifications for Smooth-Surfaced Asphalt Roll-Roofing, 761.

Wax.

Paraffin Wax. Report of Sub-Committee III, Committee D-2, 260.

Proposed Method for Determination of Oil in Wax. Report of Sub-Committee III, Committee D-2, Appendix, 263.

Results of tests on determination of oil in wax of varying oil content, 261.

White Metals.

Review of the Antimony Situation by H. K. Masters. Report of Committee B-2, Appendix, 143.

Wire.

Copper Wire. Report of Committee B-1, 126.

Proposed Requirements for Zinc-Coated or Galvanized Wire. Report of Sub-Committee VI, Committee A-5, Appendix, 102.

Screen Wire Cloth. Report of Committee D-14, 384.

Tentative Revision of Standard Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 901.

Tentative Revision of Standard Specifications for High-Strength Bronze Trolley Wire, Round and Grooved, 40 and 65-per-cent Conductivity, 902.

Tentative Revision of Standard Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots and Ingot Bars, 898.

Tentative Specifications for Bronze Trolley Wire, 578.

Tentative Specifications for Non-Ferrous Insect Screen Cloth, 587.

Wool.

Tentative Methods of Testing Grease Wool and Allied Fibers for Scoured Content, 846.

Wrought Iron.

Proposed methods of sampling and chemical analysis of wrought iron, 79.

Results of vibratory and tension tests on staybolt iron, annealed and unannealed, 82.

Tentative Specifications for Hellow Staybolt Iron, 534.

Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 896.

Tentative Revision of Standard Specifications for Staybolt, Engine-Bolt and Extra-Refined Wrought-Iron Bars, 897.

Tentative Revision of Standard Specifications for Welded Wrought-Iron Pipe, 897.

Wrought Iron. Report of Committee A-2, 77.

X**X-ray.**

Bibliography on metal radiography and X-ray crystallography, 467.

Discussion on X-ray metallography, 470.

Metal radiography, 444.

X-ray crystallography, 448.

X-ray Metallography. Report of Sub-Committee VI, Committee E-4, 444.

Y**Yarns.**

Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 831.

Z**Zinc.**

Outline of atmospheric exposure tests on zinc-coated products, 104.

Proposed Requirements for Zinc-Coated or Galvanized Wire. Report of Sub-Committee VI, Committee A-5, Appendix, 102.

AUTHOR INDEX

A

Abrams, D. A.

Report of Committee C-1, Laboratory Manual of Cement Testing, Appendix:
Brief Bibliography on Portland Cement, 172.

Report of Committee C-9, Appendix I: Digest of Literature on Methods of
Making Flexure and Tension Tests of Concrete, 205.

Aston, James

Report of Committee A-5 on Corrosion of Iron and Steel, 95.

B

Bassett, W. H.

Report of Committee D-14 on Screen Wire Cloth, 384.

Berry, H. C.

Report of Committee C-7 on Lime, 186.

Bowles, J. T-B.

Report of Sub-Committee XI, Committee D-2, on Emulsification, 272.

Boyd, D. K.

Report of Committee D-16 on Slate, 395.

Boylston, H. M.

Report of Committee A-4 on Heat Treatment of Iron and Steel, 94.

Boynton, H. C.

Report of Committee E-4 on Metallography, 440.

Brown, R. P.

Report of Committee C-7 on Lime, 186.

Butterfield, E. E.

Discussion, 181.

C

Campbell, W.

Report of Committee B-2 on Non-Ferrous Metals and Alloys, 129.

Addendum to Report of Committee B-2, 149.

Capp, J. A.

Report of Committee B-1 on Copper Wire, 126.

Report of Committee E-1 on Methods of Testing, 398.

Carpenter, A. W.

Report of Sub-Committee XIV, Committee D-1, on Preparation of Iron and
Steel Surfaces for Painting, 238.

Chapman, C. M.

Report of Committee E-8 on Nomenclature and Definitions, 488.

Church, S. R.

Report of Sub-Committee VI, Committee D-7, on Timber Preservatives, 340.

Cole, E. J.

Report of Sub-Committee IX, Committee D-1, on Varnish, 233.

Comstock, G. F.

Report of Committee E-4 on Metallography, 440.
Discussion, 437.

Cook, K. B.

Report of Committee D-13 on Textile Materials, 376.

Cooper, W. A.

Report of Sub-Committee V, Committee A-5, on Total Immersion Tests, 99.

Cox, D. C.

Report of Committee D-9, Appendix: Life Test for Transformer Oils, 363.

D**Davies, G. C.**

Report of Committee A-3 on Cast Iron, 84.

E**Edwards, E. J.**

Discussion, 88.

Edwards, W. F.

Report of Committee D-13 on Textile Materials, 376.

Emley, W. E.

Report of Committee C-3 on Brick, 184.

Report of Committee C-11 on Gypsum, 211.

Discussion, 218.

F**Farmer, F. M.**

Annual Report of the Executive Committee, 46.

Discussion, 369.

Promotion of Knowledge of Engineering Materials. Annual Address by the President, F. M. Farmer, 34.

Report of Committee D-9 on Electrical Insulating Materials, 348.

Report of Committee D-11 on Rubber Products, 371.

Fieldner, A. C.

Report of Committee D-5 on Coal and Coke, 307.

Flagg, S. G., Jr.

Discussion, 87.

Force, H. J.

Report of Committee A-2 on Wrought Iron, 77.

Forrest, C. N.

Report of Sub-Committee XV, Committee D-2, on Sampling and Gaging, 286.

Fulweiler, W. H.

Report of Committee C-8 on Refractories, 190.

Report of Committee D-15 on Thermometers, 391.

Report of Sub-Committee, Committee E-1, on Determination of Water, 416.

G**Gardner, H. A.**

Report of Sub-Committee III, Committee D-1, on Testing Paint Vehicles, 227.

Gibboney, J. H.

Report of Committee A-5 on Corrosion of Iron and Steel, 95.

Report of Sub-Committee III, Committee A-5, on Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests, 97.

Discussion, 89, 120.

Gilbert, H. W.

Discussion, 119.

Goldbeck, A. T.

Report of Committee C-9 on Concrete and Concrete Aggregates, 199.

Grafton, E. H.

Report of Committee D-11 on Rubber Products, 371.

Greenman, R. S.

Report of Committee C-1 on Cement, 159.

H**Hall, J. H.**

Report of Committee A-4 on Heat Treatment of Iron and Steel, 94.

Hallett, R. L.

Report of Committee D-1 on Preservative Coatings for Structural Materials, 220.

Harvey, F. A.

Report of Committee C-8 on Refractories, 190.

Hecht, Max.

Report of Sub-Committee XIII, Committee D-2, on Neutralization Number and Saponification, 280.

Herschel, W. H.

Discussion, 369.

Hoffman, N. B.

Discussion, 123.

Hubbard, Prévost.

Report of Committee D-4 on Road and Paving Materials, 293.

Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 342.

Hull, F. A.

Report of Sub-Committee VIII, Committee A-5, on Tests of Metallic-Coated Products, 104.

Report of Sub-Committee XXIV, Committee D-2, on Calorific Value of Fuel Oil, 292.

Huse, F. J.

Report of Committee C-10 on Hollow Masonry Building Units, 210.

I**Ingalls, F. P.**

Report of Sub-Committee XVIII, Committee D-1, on Physical Properties of Paint Materials, 241.

Ingberg, S. H.

Report of Committee C-10 on Hollow Masonry Building Units, 210.

Discussion, 218.

J**Jasper, T. McL.**

Discussion, 485.

Jeffries, Zay.

Report of Sub-Committee VI, Committee E-4, on X-ray Metallography, 444.

Johansen, E. M.

Report of Sub-Committee VII, Committee D-2, on Sulfur Determination and Differentiation, 269.

Johnson, N. C.

Discussion, 180.

K**Kessler, D. W.**

Report of Committee D-16 on Slate, 395.

L**Langenberg, F. C.**

Report of Committee A-9 on Ferro-Alloys, 121.

Lathrop, E. C.

Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 150.

Law, L. M.

Report of Committee D-4, Appendix: Report of Sectional Committee on Penetration, 301.

Lawson, T. R.

Report of Committee C-3 on Brick, 184.

M**MacKenzie, J. T.**

Discussion, 89, 123.

Mackenzie, K. G.

Report of Sub-Committee XX, Committee D-2, on Nomenclature, 287.

Malcolm, V. T.

Discussion, 470.

Manning, Van. H.

Report of Committee D-2 on Petroleum Products and Lubricants, 248.

Marani, V. G.

Report of Committee C-11 on Gypsum, 211.

Discussion, 219.

Masters, H. K.

Report of Committee B-2, Appendix: Review of the Antimony Situation, 143.

Mattimore, H. S.

Report of Committee D-4 on Road and Paving Materials, 293.

McKnight, Charles, Jr.

Report of Committee A-9 on Ferro-Alloys, 121.

Merica, P. D.

Report of Committee B-2 on Non-Ferrous Metals and Alloys, 129.

Addendum to Report of Committee B-2, 149.

Merriman, Thaddeus.

Discussion, 178.

Moldenke, Richard.

Report of Committee A-3 on Cast Iron, 84.
Discussion, 87

Moore, H. F.

Discussion, 438.
Report of Committee E-9 on Correlation of Research, 502.

Muckenfuss, A. M.

Report of Sub-Committee XXIII, Committee D-1, on Anti-Fouling Paints, 244.

Mueller, E. F.

Report of Committee D-15 on Thermometers, 391.

Nemzek, L. P.

Report of Sub-Committee VI, Committee D-1, on Definitions of Terms Used in Paint Specifications, 232.

N**Newlin, J. A.**

Report of Committee D-7 on Timber, 310.

O**Osterhout, C. C.**

Report of Committee A-2 on Wrought Iron, 77.

P**Paul, C. E.**

Report of Sub-Committee I, Committee D-7, on Specifications for Timber, 312.

Pearson, J. C.

Report of Committee C-9 on Concrete and Concrete Aggregates, 199.

Phillips, E. B.

Report of Sub-Committee III, Committee D-2, on Paraffin Wax, 260.

Porter, H. C.

Report of Committee D-5 on Coal and Coke, 307.

Putnam, W. P.

Report of Committee A-7 on Malleable Castings, 118.

R**Rawdon, H. S.**

Report of Sub-Committee VII, Committee A-5, on Accelerated Tests, 103.
Report of Sub-Committee V, Committee E-4, on Micro-Hardness, 442.

Rogers, Allen.

Report of Committee D-1 on Preservative Coatings for Structural Materials, 220.

Rogers, R. E.

Report of Sub-Committee XXII, Committee D-1, on Method of Application of Paint by Spraying, 243.

S**St. John, Ancel.**

Discussion, 484.

Selvig, W. A.

Report of Committee D-5 on Coal and Coke, 307.

Slater, W. A.

Discussion, 181.

Smith, H. E.

Report of Sub-Committee VI, Committee A-5, on Specifications for Metallic-Coated Products, 101.

Smith, N. A. C.

Report of Sub-Committee XXI, Committee D-2, on Crude Petroleum, 290.

Snyder, E. A.

Report of Committee D-9, Appendix: Life Test for Transformer Oils, 363.

Spring, L. W.

Discussion, 124.

T

Touceda, Enrique.

Report of Committee A-7 on Malleable Castings, 118.

Tour, Sam.

Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 150.

V

Van Gundy, C. P.

Report of Committee D-2 on Petroleum Products and Lubricants, 248.

Vassar, H. S.

Report of Committee D-9 on Electrical Insulating Materials, 348.

von Schrenk, Hermann.

Report of Committee D-7 on Timber, 310.

W

Wagner, S. T.

Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 342.

Waring, F. M.

Report of Committee A-1 on Steel, 70.

Warwick, C. L.

Annual Report of the Executive Committee, 46.

Discussion, 89.

Report of Committee E-1 on Methods of Testing, 398.

Report of Committee E-6 on Papers and Publications, 486.

Report of Committee E-8 on Nomenclature and Definitions, 488.

Report of Committee E-9 on Correlation of Research, 502.

Wiggin, T. H.

Discussion, 89.

Wilson, R. E.

Report of Sub-Committee IV, Committee D-2, on Grease, 266.

Woodroffe, G. H.

Report of Committee A-1 on Steel, 70.

Woodward, R. W.

Report of Committee D-14 on Screen Wire Cloth, 384.

Discussion, 438.

Y

Young, C. D.

Discussion, 124.

Young, R. B.

Report of Committee C-1 on Cement, 159.

